

# RSC Applied Interfaces

rsc.li/RSCApplInter

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

## IN THIS ISSUE

N/A CODEN RAISCD 1(2) 209–330 (2024)



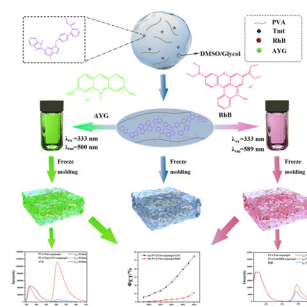
**Cover**  
See Liyong Ding,  
Juncheng Hu et al.,  
pp. 222–232.  
Image reproduced by  
permission of Juncheng Hu  
from *RSC Appl. Interfaces*,  
2024, 1, 222.

## COMMUNICATION

215

### A multifunctional organogel for constructing artificial light harvesting systems with excellent energy transfer efficiency

Xinxian Ma,\* Jiahong Tang, Tianqi Ren, Jiali Zhang, Yuehua Liang, Jiuzhi Wei and Enke Feng

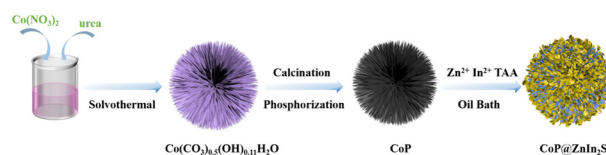


## PAPERS

222

### Construction of a hierarchical CoP@ZnIn<sub>2</sub>S<sub>4</sub> heterojunction for photocatalytic hydrogen evolution

Yuqin Liu, Liyong Ding,\* Qian Xu, Yu Ma and Juncheng Hu\*





# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)

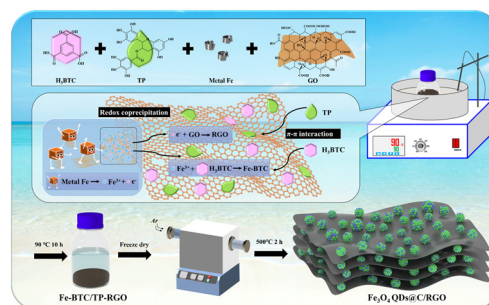
Fundamental questions  
Elemental answers



233

### Synthesis of a MOF-derived magnetite quantum dots on surface modulated reduced graphene oxide composite for high-rate lithium-ion storage

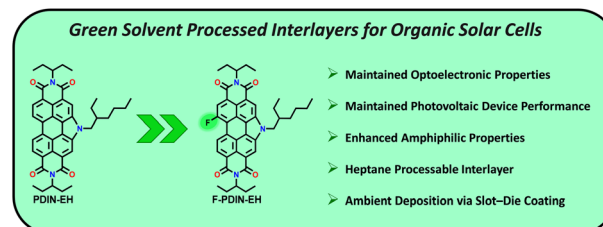
Ruixin Jia, Longbiao Yu, Zhenqi Han, Shuo Liu, Panpan Shang, Siqi Deng, Xuehua Liu and Binghui Xu\*



245

### A fluorinated perylene diimide for polar and non-polar green solvent processed organic photovoltaic cathode interlayers

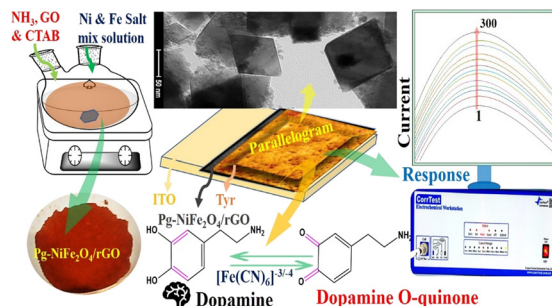
Colton Atkinson, Muhammad Rizwan Niazi and Gregory C. Welch\*



252

### Nanoengineered parallelogram-NiFe<sub>2</sub>O<sub>4</sub>/rGO nanocomposite-based biosensing interface for highly efficient electrochemical detection of neurodegenerative disorders via dopamine monitoring

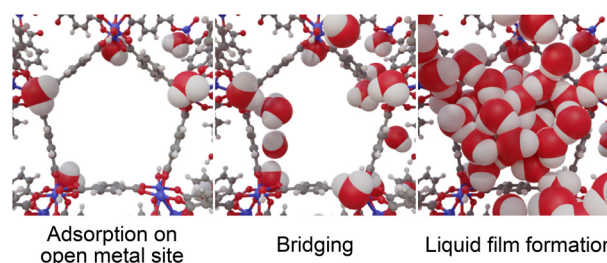
Rahul Verma, Kshitij RB Singh, Ranjana Verma and Jay Singh\*



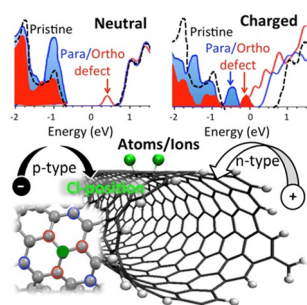
268

### Simulation studies of water adsorption on MIL-101(Cr) revealing the role of inhomogeneous potential field composed of open metal sites and organic linkers

Shotaro Hiraide,\* Yu Katayama, Akira Endo, Ryotaro Matsuda, Minoru T. Miyahara and Satoshi Watanabe\*



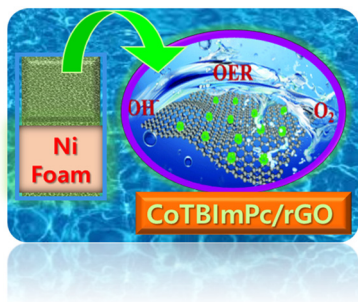
281



### Optically active defects in carbon nanotubes via chlorination: computational insights

Braden M. Weight, Brendan J. Gifford, Grace Tiffany, Elva Henderson, Deyan Mihaylov, Dmitri Kilin and Svetlana Kilina\*

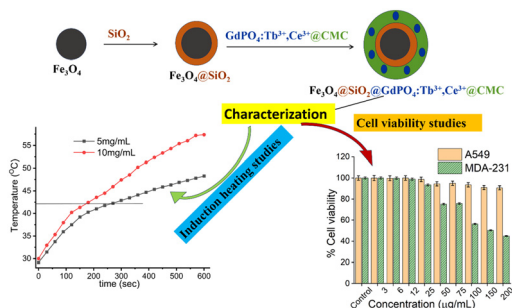
301



### Cobalt-benzimidazole swapped metal-organic macrocycle with reduced graphene oxide as a hybrid electrocatalyst for highly efficient oxygen evolution reaction

C. P. Keshavananda Prabhu,\* Kenkera Rayappa Naveen and Jaehyun Hur\*

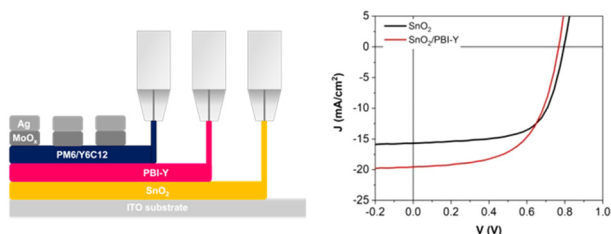
313



### Carboxymethylcellulose modified $\text{Fe}_3\text{O}_4@SiO_2@GdPO_4:Tb^{3+},Ce^{3+}$ nanocomposites for combined optical and magnetic fluid hyperthermia in cancer therapy

Dhanapriya Devi Yengkhom, Goutam Singh Ningombam, Rameshwari Heisnam, Nanaocha Sharma, Rajmuhon Singh Nongmaithem and Francis A. S. Chipem\*

323



### All slot-die coated organic solar cells using an amine processed cathode interlayer based upon an amino acid functionalised perylene bisimide

Rebecca E. Ginesi, Muhammad R. Niazi, Gregory C. Welch\* and Emily R. Draper\*

